

# **WORLD AGRICULTURAL PRODUCTION AND TRADE**

## **Statistical Report**

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**AUGUST 1975**

### **WORLD SUMMARIES**

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**FOREIGN AGRICULTURAL SERVICE . U.S. DEPARTMENT OF AGRICULTURE**

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## WORLD FISHMEAL AND OIL PRODUCTION AND EXPORTS CONTINUE RECOVERY

World fishmeal production in 1975 is forecast at 4.49 million metric tons, up 190,000 tons from the 1974 volume. The six major producer-exporters—Peru, Norway, South Africa, Chile, Denmark, and Iceland—are expected to produce 2.3 million tons this year (up 185,000 tons from last year), accounting for 51 percent of the world total. Between 1965 and 1971, these countries represented an average of 64 percent of the world total. The decline is largely attributable to a lower Peruvian anchovy catch, caused by a decline in anchovy population that resulted mainly from a temporary change in the Peruvian current. However, the Peruvian fish catch situation has since improved.

Peru is the principal producer of fishmeal among these six countries. The total fish catch for 1975 is forecast at 5 million tons, the highest since 1971. Assuming a 22 percent meal extraction rate, 1975 fishmeal production is forecast at 1.1 million tons. With an estimated stock carryover from 1974 of nearly 220,000 tons, the total supply for 1975 will approximate 1.32 million tons.

The Peruvian fish catch through mid-June totaled 2.95 million tons, which is equivalent to 650,000 tons of fishmeal. Peru has suspended commercial anchovy fishing until September or October.

Norway's fishmeal production is expected to decline to 280,000 tons in 1975, 9 percent below that of 1974, and 21 percent below that of 1973. With international catch restrictions now in effect for capelin (a member of the smelt family) and North Sea herring and national regulations also applied, it is likely that Norway's fishmeal production will continue to decline.

South African production (including South West Africa) in 1975 is forecast at 290,000 tons, the same as last year.

Chilean output of fishmeal rose to 200,000 tons this year, 14 percent above 1974 production. Chile's record year was 1971, when 263,000 tons were produced. Chile's 1973 output at only 73,000 tons was the lowest since 1961.

Denmark's production of fishmeal in 1975 is forecast at 330,000 tons, the same as in 1974 but 35 percent above that of 1973. Even though Denmark's production has been increasing, in the long run it will probably face the problem of limited-catch provisions, as does Norway.

Iceland's fishmeal production for 1975 is forecast at 100,000 tons, slightly below 1974's level but the same as in 1973. A recent development in the Icelandic fishmeal industry has been the diversion of some capelin from processing for fishmeal to the frozen fish export market to Japan for human consumption.

Countries other than the six major producer-exporters are forecast to produce 2.19 million tons in 1975—almost the same as last year.

In 1976, world fishmeal production is projected to reach 4.75 million tons—260,000 tons above the 1975 forecast. Peru represents 85 percent of this increase, with its 1976 production projected at 1.32 million tons. It is possible that

Peru's production could even be higher, but this will depend on the price of fishmeal vs. costs of production. Including projected stocks of 200,000 tons, Peru's 1976 supply could total 1.52 million tons.

World exports of fishmeal in 1975 are forecast at 2.28 million tons—390,000 tons above 1974's exports. Peru represents 94 percent of this increase, with its 1975 exports forecast at 1 million tons—almost 370,000 tons above those of 1974 and 650,000 tons above those of 1973. In 1976, world exports are projected to reach 2.48 million tons—200,000 tons above 1975's forecast. Peru will represent all of the increase in this trade, with its 1976 exports projected at 1.2 million tons.

Several of the major importers of fishmeal also export the product. West Germany, for example, imported 352,000 tons of fishmeal in 1974 and exported 92,000 tons. France imported 37,000 tons that year and exported 16,000 tons. Japan imported 25,000 tons and exported 31,000 tons. Japan is also a producer of fishmeal.

### Fish Oil Output and Trade Up

World production of fish oil in 1975 is forecast at 1.1 million metric tons, representing an increase of 11 percent or 127,000 tons above 1974's output. The five principal producer-exporters—Peru, Norway, United States, South Africa, and Iceland—are forecast to produce 61 percent of the total 1975 fish oil output and all of the increase from the previous year.

Peru in 1975 is the largest fish oil producer, with output forecast at 325,000 tons—113,000 tons above that of last year. This year's assumed oil extraction rate is between 6 and 6.5 percent—the highest on record. Stocks on January 1, 1975, totaled 75,000 tons. Thus the total 1975 supply is 400,000 tons, compared with 221,000 tons in 1974.

Norway's 1975 production is forecast at 143,000 tons—14,000 tons below 1974's output and 49,000 tons below 1973's output. Lower quotas for capelin are partly responsible for this decline.

Fish oil production in the United States for 1975 is forecast at 108,000 tons, the same as last year.

South African fish oil production in 1975 is forecast at 60,000 tons—18 percent above that of last year. This is the highest production since 1970.

Icelandic production of fish oil for 1975 is forecast at 30,000 tons, which is approximately the same as in the previous 2 years and the highest since 1967.

Production in the countries other than the major producer-exporters for 1975 will be slightly above 1974's output. Their total production for 1975 is forecast at 451,000 tons—16,000 tons below that of last year.

World production of fish oil in 1976 is projected at 1.16 million tons—only 40,000 tons above 1975's forecast, with Peru again supplying most of the increase. Peru's 1976 fish

oil production is projected at 350,000 tons—25,000 tons above 1975's forecast.

World exports of fish oil in 1975 are forecast to total 620,000 tons, up 26 percent or 129,000 tons from the low level of 491,000 tons in 1974. The increase largely reflects recovery in Peruvian exports to 175,000 tons—almost 100,000 tons above last year's exports. Fish oil exports in 1974 were the lowest since 1965. Norway's 1975 net exports are forecast at 100,000—18,000 tons above those of last year. Together, Peru and Norway account for 91 percent of the increase in world exports of fish oil for 1975. In 1976, world exports are projected to increase to 695,000

tons—75,000 tons above 1975's forecast. Peru will account for all of the increase in 1976 world exports. Peru's exports for 1976 are projected at 250,000 tons.

The major importer of fish oil is the United Kingdom, whose 1974 imports totaled 154,000 tons. Previously, this country imported as much as 265,000 tons. The United Kingdom also exports fish oil, but in very small quantities (7,000-9,000 tons). The next largest importer is West Germany, which imported 133,000 tons in 1974. Norway is a major producer-exporter, but also is a major importer. In 1974 Norway exported 129,000 tons, while importing 47,000 tons.

Fishmeal: Production and exports by selected producer-exporters,  
and the world annual 1965-75  
and forecast 1976  
(In 1,000 metric tons)

Item and Year	Peru	Norway	South Africa	Chile	Denmark	Iceland	Total	Other	World
<b>Production: 1/</b>									
1965.....	1,282	283	277	93	113	174	2,222	1,300	3,522
1966.....	1,471	422	270	218	125	176	2,682	1,377	4,059
1967.....	1,816	494	356	162	176	112	3,116	1,465	4,581
1968.....	1,922	404	478	235	244	53	3,336	1,644	4,980
1969.....	1,611	310	412	177	247	61	2,818	1,838	4,656
1970.....	2,253	352	340	197	245	67	3,454	1,946	5,400
1971.....	1,935	370	280	263	248	64	3,160	2,029	5,189
1972.....	897	357	251	116	257	75	1,953	2,103	4,056
1973.....	423	354	279	73	245	100	1,474	2,201	3,675
1974 2/.....	905	309	290	176	330	105	2,115	2,185	4,300
1975 3/.....	1,100	280	290	200	330	100	2,300	2,190	4,490
1976 4/.....	1,320	290	290	200	330	100	2,530	2,220	4,750
<b>Exports: 1/</b>									
1965.....	1,260	260	233	67	81	141	2,042	172	2,214
1966.....	1,304	258	173	183	82	153	2,153	220	2,373
1967.....	1,561	495	289	114	102	133	2,694	208	2,902
1968.....	2,083	436	353	176	184	62	3,294	254	3,548
1969.....	1,656	302	314	145	169	66	2,652	329	2,981
1970.....	1,873	249	184	99	170	62	2,637	320	2,957
1971.....	1,752	319	118	183	188	60	2,620	284	2,904
1972.....	1,528	382	142	77	189	74	2,392	339	2,731
1973.....	351	327	175	27	211	93	1,184	325	1,509
1974 2/.....	632	282	180	112	260	82	1,548	342	1,890
1975 3/.....	1,000	250	190	135	250	100	1,925	355	2,280
1976 4/.....	1,200	250	180	135	250	100	2,115	360	2,475

1/ Includes fish solubles, dry weight basis, where separately classified.

2/ Preliminary.

3/ Partly estimated.

4/ Forecast.

Peruvian Fishmeal: Estimated supply and distribution

Year	Fish catch : metric tons	Meal : extraction rate : Percent	Production : metric tons	Stocks : Jan. 1 : metric tons	Supply : metric tons	Apparent : domestic consumption : metric tons	Exports : metric tons	Average : annual : price l/ : U.S. dollars/ m.t.
.....	1,000		1,000	1,000	1,000	1,000	1,000	
.....	7,242	17.7	1,282	260	1,542	44	1,260	110.0
.....	8,530	17.3	1,471	238	1,709	29	1,305	139.5
.....	9,825	18.5	1,816	375	2,191	30	1,561	109.0
.....	10,263	18.7	1,922	600	2,522	48	2,083	100.8
.....	8,960	18.0	1,611	391	2,002	39	1,656	119.2
.....	12,383	18.2	2,253	307	2,560	33	1,873	157.2
1971.....	10,274	18.8	1,935	654	2,589	51	1,752	154.6
1972.....	4,447	20.2	897	786	1,683	95	1,528	144.0
1973.....	1,769	23.0	423	60	483	80	351	360.0
1974.....	3,583	25.3	905	52	957	105	632	N.A.
1975 2/.....	5,000	22.0	1,100	220	1,320	120	1,000	N.A.
1976 3/.....	6,000	22.0	1,320	200	1,520	120	1,200	N.A.
1/ F.O.B. Peruvian ports. 2/ Forecast. 3/ Projection.								

Compiled from Sociedad Nacional de Pesqueria and other sources.

Fishmeal <sup>1/</sup>: Exports from specified countries,  
annual 1966-74  
(In 1,000 metric tons)

	1966	1967	1968	1969	1970	1971	1972	1973	1974 <sup>2/</sup>
North America:									
Canada.....	49	48	64	73	73	63	33	29	35
Greenland.....	2	2	1	1	1	1	1	3/ 1	3/ 1
Panama.....	10	9	9	2	5	6	7	8	7
Total.....	61	59	74	76	79	70	41	38	43
South America:									
Argentina.....	1	2	1	1	1	(4/)	(4/)	7	4
Chile.....	183	114	176	145	99	183	77	27	112
Peru.....	1,304	1,561	2,083	1,656	1,873	1,752	1,528	351	632
Total.....	1,488	1,677	2,260	1,802	1,973	1,935	1,605	385	748
Europe:									
Belgium-Luxembourg.....	2	1	(4/)	1	1	1	1	2	2
Denmark.....	82	102	184	169	170	188	189	211	260
France.....	6	4	4	2	5	11	7	22	16
Germany, West.....	2	2	8	15	21	44	41	42	92
Ireland.....	(4/)	(4/)	1	1	2	2	2	1	3
Italy.....	(4/)	(4/)	(4/)	0	(4/)	(4/)	(4/)	1	1
Netherlands.....	4	1	15	32	37	9	27	6	4
United Kingdom.....	15	15	11	17	30	9	11	10	14
Total EC.....	111	125	223	237	266	264	278	295	392
Faroe Islands.....	6	11	13	12	14	16	14	20	22
Iceland.....	153	133	62	66	62	60	74	93	82
Norway.....	258	495	436	302	249	319	382	327	282
Portugal.....	4	4	8	8	7	6	9	9	3
Sweden.....	1	1	(4/)	(4/)	2	2	4	6	5
Total Europe.....	533	769	742	625	600	667	761	750	786
USSR.....	12	36	28	27	12	10	15	11	10
Africa:									
Angola.....	54	37	44	92	62	48	120	89	
Morocco.....	37	25	38	28	23	19	18	41	
South Africa <sup>5/</sup> .....	173	289	6/ 353	6/ 314	6/ 184	118	6/ 142	6/ 175	
Total.....	264	351	435	434	269	185	280	305	
Asia:									
Japan.....	15	11	7	18	25	38	29		
Grand total <sup>7/</sup> .....	2,373	2,902	3,548	2,981	2,957	2,904	2,731		

<sup>1/</sup> Includes solubles and similar products.

<sup>2/</sup> Preliminary.

<sup>3/</sup> Estimated.

<sup>4/</sup> Less than 500 tons.

<sup>5/</sup> Including the production of South West Africa.

<sup>6/</sup> Fishmeal exporters organization estimates includes export sales from factory ships.

<sup>7/</sup> Totals may not add due to rounding.

Fishmeal 1/: Imports into specified countries,  
annual 1966-74  
(In 1,000 metric tons)

	1966	1967	1968	1969	1970	1971	1972	1973	1974 2/
<b>North America:</b>									
Canada.....	(3/)	1	2	1	(3/)	(3/)	1	(3/)	(3/)
Mexico.....	49	52	71	70	78	104	85	14	33
United States.....	408	593	777	325	229	257	356	62	62
Total.....	457	646	850	396	307	361	442	76	95
<b>South America:</b>									
Bolivia.....	(3/)	1	(3/)	1	1	(3/)	(3/)	(3/)	(3/)
Brazil.....	2	6	8	9	7	10	2	0	2
Colombia 4/.....	7	3	5	4	5	5/ 4	5/ 4	5/ 4	5/ 4
Venezuela.....	16	25	30	26	27	32	10	7	0
Total.....	25	35	43	40	40	46	16	11	6
<b>Europe:</b>									
Belgium-Luxembourg.....	73	80	96	99	95	97	89	43	29
Denmark.....	37	22	8	31	19	20	21	24	14
France.....	91	99	107	105	95	67	85	49	37
Germany, West 6/.....	361	479	539	551	515	530	509	265	352
Ireland.....	11	17	20	26	23	12	17	12	11
Italy.....	96	103	111	115	114	100	120	56	57
Netherlands.....	138	146	186	196	134	130	160	48	46
United Kingdom.....	309	400	499	468	392	327	393	316	229
Total EC.....	1,116	1,346	1,566	1,591	1,387	1,283	1,394	813	775
Austria.....	38	46	51	54	57	56	52	24	30
Finland.....	21	26	41	44	41	46	47	51	50
Greece 4/.....	18	18	10	12	10	13	15	6	3
Norway.....	2	2	1	1	1	1	7	(3/)	1
Portugal.....	10	14	19	23	24	22	32	13	12
Spain.....	100	107	113	141	117	99	122	38	49
Sweden.....	50	57	73	80	75	79	77	73	44
Switzerland 4/.....	30	38	57	68	71	73	82	74	80
Total W. Europe.....	1,385	1,654	1,931	2,014	1,783	1,672	1,828	1,092	1,044
Bulgaria.....	20	14	9	10	21	29	21	2	2
Czechoslovakia.....	67	75	75	83	104	114	100	31	26
Germany, East.....	95	80	98	72	140	210	80	40	68
Hungary.....	28	33	48	53	60	80	68	58	65
Poland.....	67	85	108	123	126	115	166	130	163
Yugoslavia.....	41	39	48	55	119	70	53	67	80
Total E. Europe.....	318	326	386	396	570	618	488	328	404
Total Europe.....	1,703	1,980	2,317	2,410	2,353	2,290	2,316	1,420	1,448
<b>Africa:</b>									
Kenya.....	(3/)	1	1	1	1	2	2	1	1
Mozambique.....	1	1	2	2	3	3	3	5/ 2	5/ 2
Malawi.....	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)	(3/)
Zambia.....	2	2	3	5	5	3	5/ 5	2	2
Total.....	3	4	6	8	9	8	10	5	5
<b>Asia:</b>									
Israel 4/.....	13	11	15	22	24	15	15	7	11
Hong Kong.....	3	2	2	2	3	3	3	4	3
Japan.....	96	87	150	108	95	22	57	87	25
Malaysia.....	11	10	14	12	13	10	10	6	5
Philippines.....	8	13	21	12	10	10	12	1	9
Singapore.....	22	23	43	34	34	33	38	34	37
Thailand.....	0	(3/)	(3/)	3	1	(3/)	(3/)	(3/)	(3/)
Vietnam, South.....	0	(3/)	1	1	5/ 1	5/ 1	5/ 1	5/ 1	5/ 1
Total.....	153	146	246	194	181	94	136	140	91
<b>Oceania:</b>									
Australia 8/.....	12	14	28	30	27	32	81	14	14
Grand total 9/.....	2,353	2,824	3,490	3,079	2,915	2,832	3,002	1,666	1,658

- 1/ Includes fish solubles, dry weight basis, where separately classified in import statistics.  
2/ Preliminary.  
3/ Less than 500 tons.  
4/ Includes small amounts of meat meal.  
5/ Estimated.  
6/ Includes fish and whale solubles, dry weight basis.  
7/ Not available.  
8/ Year ending June 30.  
9/ Totals may not add due to rounding.



Fish Oil: Production and exports by major producer-exporters  
and world, annual 1965-75 and 1976 forecast  
(In 1,000 metric tons)

Item and year	Peru	Norway	United States	South Africa	Iceland	Total	Other	World
Production: 2/								
1965.....	125	178	88	57	104	552	234	786
1966.....	147	238	74	51	130	640	250	890
1967.....	292	337	54	65	74	822	289	1,111
1968.....	292	243	78	125	20	758	349	1,107
1969.....	248	211	76	100	13	648	329	977
1970.....	311	188	93	80	12	684	354	1,038
1971.....	414	188	119	55	11	787	383	1,170
1972.....	220	202	86	44	17	569	361	930
1973.....	40	192	103	70	30	435	370	805
1974 3/.....	212	157	108	51	27	555	435	990
1975 4/.....	325	143	108	60	30	666	451	1,117
1976 4/.....	350	150	110	65	30	705	452	1,157
Exports: 2/								
1965.....	137	(5/)	(6/)	35	89	436	42	478
1966.....	87	133	42	25	133	459	51	510
1967.....	196	187	27	25	79	575	84	659
1968.....	323	245	30	106	33	631	106	737
1969.....	141	144	25	62	36	547	73	620
1970.....	200	127	68	57	12	464	96	560
1971.....	276	123	98	16	9	522	110	632
1972.....	293	123	82	20	16	534	131	665
1973.....	0	222	108	40	28	398	143	541
1974 3/.....	76	82	83	14	24	279	212	491
1975 4/.....	175	100	90	27	28	420	200	620
1976 4/.....	250	100	90	27	28	495	200	695

- 1/ Norway revised series 1967-75.  
2/ Includes fish liver oil and hardened fish oil.  
3/ Preliminary.  
4/ Forecast.  
5/ Net exports includes hardened fish oil.  
6/ Net exports.

Peruvian Fish Oil: Estimated supply and distribution

	Fish catch	Oil extraction rate	Production	Stocks January 1	Supply	Apparent	Exports
	1,000 metric tons	Percent	1,000 metric tons	1,000 metric tons	1,000 metric tons	1,000 metric tons	1,000 metric tons
...	7,242	1.7	125	69	194	33	137
...	8,530	1.7	147	24	171	35	87
...	9,825	3.0	292	49	341	37	196
...	10,263	2.9	292	108	400	42	323
...	8,960	2.8	248	35	283	45	141
1970.....	12,383	2.5	311	97	408	78	200
1971.....	10,274	4.0	414	130	544	118	276
1972.....	4,447	5.0	220	150	370	51	293
1973.....	1,769	2.3	40	26	66	57	0
1974.....	3,583	5.9	212	9	221	70	76
1975 1/.....	5,000	6.5	325	75	400	90	175
1976 2/.....	6,000	5.8	350	135	485	115	250

1/ Forecast.

2/ Projection.

Fish Oil (Including fish liver oils): World net exports,  
annual 1965-74  
(In 1,000 metric tons)

Continent and country	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974 <sup>1/</sup>
<b>Gross Exports</b>										
<b>North America:</b>										
Canada.....	7	3	5	4	10	20	8	5	7	9
United States.....	47	35	35	30	89	72	104	88	112	90
Total.....	54	38	40	34	99	92	112	93	119	99
<b>South America:</b>										
Argentina.....	1	2	2	(2/)	1	1	1	(2/)	1	(2/)
Chile.....	8	16	10	28	16	16	37	22	0	14
Peru.....	137	87	196	323	141	200	276	293	0	76
Total.....	146	105	208	351	158	217	314	315	1	90
<b>Europe:</b>										
Belgium-Luxembourg.....	1	1	1	1	1	1	1	1	1	1
Denmark.....	52	35	64	58	30	28	18	39	51	75
France.....	2	3	2	3	3	4	5	4	5	7
Germany, West.....	16	16	20	15	11	6	4	4	4	3
Ireland.....	1	(2/)	(2/)	(2/)	(2/)	1	1	1	1	1
Italy.....	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
Netherlands <sup>3/</sup> .....	2	4	2	3	5	4	3	2	2	7
United Kingdom.....	4	5	5	7	9	9	7	6	7	7
Total EC.....	78	64	94	87	59	53	39	57	71	101
Faroe Islands.....	2	3	7	7	3	6	5	5	5	5
Iceland.....	89	133	79	33	36	12	9	16	28	24
Norway <sup>4/</sup> .....	149	208	268	184	251	160	152	178	232	129
Portugal.....	10	9	11	11	8	9	7	8	9	7
Spain.....	(2/)	1	1	1	2	3	2	2	4	1
Sweden.....	14	12	16	13	14	14	17	10	8	2
Total.....	342	430	476	336	373	257	231	276	357	269
USSR.....	1	1	1	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
<b>Africa:</b>										
Angola.....	5	5	5	4	8	12	8	19	18	14
Morocco.....	1	5	8	11	8	5	3	4	13	4
South Africa <sup>5/</sup> .....	35	25	25	6/ 106	6/ 62	6/ 57	16	20	40	14
Total.....	41	35	38	121	78	74	27	43	71	32
<b>Asia:</b>										
Japan.....	1	1	3	2	2	15	29	34	36	85
Total.....	1	1	3	2	2	15	29	34	36	85
<b>Grand total.....</b>	<b>585</b>	<b>610</b>	<b>766</b>	<b>844</b>	<b>710</b>	<b>655</b>	<b>713</b>	<b>761</b>	<b>584</b>	<b>575</b>
<b>Gross Imports</b>										
Canada.....	4	5	4	2	2	2	2	2	1	1
Mexico.....	1	1	1	1	2	1	1	1	1	1
United States.....	5	8	5	4	4	4	6	6	5	8
Colombia.....	14	32	17	33	38	21	35	10	20	20
Belgium-Luxembourg.....	17	19	23	16	17	13	17	21	23	17
Denmark.....	45	29	30	23	15	17	8	10	4	4
France.....	33	27	31	22	30	28	25	36	24	15
Germany, West.....	71	78	99	158	134	123	136	148	117	133
Ireland.....	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	2	5	(2/)
Italy.....	4	5	6	10	6	4	3	3	2	3
Netherlands <sup>3/</sup> .....	63	78	123	137	112	102	119	120	111	89
United Kingdom.....	153	164	265	189	181	176	200	221	207	154
Total EC.....	386	400	577	555	495	463	508	561	493	415
Hungary.....	4	5	5	6	6	6	5	4	4	5
Norway <sup>4/</sup> .....	16	21	23	40	28	33	29	55	10	47
Poland.....	15	14	7	18	25	13	2	6	1	2
Spain.....	4	7	8	(2/)	4	1	(2/)	(2/)	(2/)	(2/)
Sweden <sup>4/</sup> .....	46	33	42	41	35	36	39	38	30	30
Korea, Republic of.....	(2/)	1	3	1	1	2	2	3	4	1
Japan.....	1	6	3	6	7	1	1	1	1	1
Total imports <sup>7/</sup> .....	496	533	695	707	647	583	630	687	570	531
<b>Net exports.....</b>	<b>478</b>	<b>510</b>	<b>659</b>	<b>737</b>	<b>620</b>	<b>560</b>	<b>632</b>	<b>665</b>	<b>541</b>	<b>491</b>

<sup>1/</sup> Preliminary. <sup>2/</sup> Less than 500 tons. <sup>3/</sup> Excludes sizable quantities of hardened fish oils exported annually which are not separately classified in trade returns. <sup>4/</sup> Includes hardened fish oils. <sup>5/</sup> Including the territory of South West Africa. <sup>6/</sup> Including factory ships. <sup>7/</sup> Totals computed from unrounded data.

## WORLD PRODUCTION OF SUNFLOWERSEED TO REMAIN UNCHANGED IN 1975/76

World production of sunflowerseed in 1975/76 is projected at 10.8 million metric tons, practically unchanged from 1974/75. Outturn in the USSR is expected to be below 1974's 6.8 million ton crop, possibly as low as 5.8 million tons. Expected increases in production in the United States, Spain, and Eastern Europe—especially Yugoslavia—and a projected recovery of production in Argentina in early 1976 following this year's poor harvest should offset a major portion of the expected decline in the USSR.

If the Soviet crop is in the middle of the current range of estimates i.e., 6.3 million tons—world production of sunflowerseed oil in 1976 is expected to remain at approximately 4 million tons, unchanged from that of 1975. A 500,000-ton decline in gross sunflowerseed production in the USSR represents a potential 175,000-200,000 ton decline in oil output during 1976. Sunflowerseed production on an oil basis is expected to increase in Eastern Europe by 60,000 tons, in the United States by almost 60,000 tons, in Spain by 30,000 tons, and next year in Argentina by 50,000 tons.

World production of sunflowerseed meal in 1976 is expected to remain at approximately 3.8 million tons, or the protein fraction of about 130 million bushels of soybeans.

World exports of sunflowerseed and oil, oil basis, in 1976 are forecast at 645,000 tons, down from an estimated 690,000 tons shipped during 1975. The projected downturn in exports primarily reflects an expected decline in Soviet exports in both 1975 and 1976 resulting from smaller harvests since 1973's record 7.4 million-ton sunflowerseed crop.

World exports of sunflowerseed and meal, meal basis, in 1975 are expected to decline 18 percent to approximately 415,000 tons, the lowest volume traded since 1964. With the exception of the United States, exports of sunflowerseed for crush from the world's major producer-exporters have trended downward in recent years as a consequence of increased crushing in producing countries. Changes in the volume of meal exported have been more the result of

expected to decline because below normal rainfall has adversely affected yields in major producing regions of the southern RSFSR and Ukraine. Although sunflowers have a reputation for being drought-tolerant because of their extensive root systems, they still require adequate moisture during the early stages of plant growth to attain good yields.

Planting of sunflowers in the USSR took place earlier than usual this year, because dry conditions enabled field work to begin sooner. Unseasonably dry weather since then is believed to have limited root development and head size in many areas. Reports have been received that many sunflowers are now being harvested for silage because of small heads. Consequently, harvested acreage of sunflowerseed for crushing could be much less than last year's, despite the fact that planted acreage may actually have increased slightly.

In Romania, flooding of the Danube in early July is believed to have reduced the sunflowerseed crop by at least 100,000 tons from earlier expectations. Consequently, outturn is expected to increase only slightly to approximately 700,000 tons from last year's drought-reduced 671,000 ton crop.

In Argentina, sunflowerseed production in 1975 was officially estimated at 780,000 tons, the lowest outturn since 1966. Sowings were below normal because of dry conditions, and frequent rains and flooding in Buenos Aires Province during the ripening and harvest stages reduced the crop even more.

Production of sunflowerseed in the United States in 1975 is forecast at a record 450,000 metric tons—up nearly 160,000 tons, or more than 50 percent from 1974's crop of 291,000 tons. Of this year's crop, production for crushing is estimated at 380,000 tons, the balance being confectionary seed. U.S. crush and exports combined in 1975/76 are forecast at 350,000 tons, yielding 140,000 tons of oil. Oil output in 1974/75 was just over 80,000 tons.

This year, plantings increased by about 70 percent to around 1.2 million acres, primarily reflecting the introduction of sunflowers on approximately 275,000 acres in Texas. Flooding and heavy rains early this summer in North Dakota and Minnesota, where most U.S. sunflowerseed is grown, cut production in that region by as much as 50 percent, preventing total U.S. production from keeping pace with planted acreage.

SUNFLOWERSEED ACREAGE AND PRODUCTION IN SPECIFIED COUNTRIES AND THE WORLD, ANNUAL 1970-75

CONTINENT AND COUNTRY	ACREAGE					PRODUCTION					Forecast	
	1970	1971	1972	1973	1974 1/	1975	1970	1971	1972	1973	1974 1/	1975
	IN 1,000						IN 1,000					METRIC TONS
NORTH AMERICA:												
CANADA.....	72	239	217	129	30	44	25	77	77	41	12	14
UNITED STATES.....	207	392	692	745	650	1,200	86	196	334	353	291	450
MEXICO.....	---	136	74	25	35	25	---	20	15	3	3	3
TOTAL.....	279	767	983	899	705	--	111	293	426	397	306	467
SOUTH AMERICA:												
ARGENTINA.....	3,328	3,246	3,179	3,306	2,686	3,050	1,140	830	828	965	1,000	780
CHILE.....	49	38	37	27	21	30	28	20	20	6	7	13
URUGUAY.....	240	255	254	268	225	210	65	49	60	71	48	43
OTHER.....	12	12	12	12	12	--	20	18	18	18	18	18
TOTAL 2/.....	3,629	3,551	3,482	3,613	2,944	--	1,253	917	926	1,060	1,073	854
EUROPE:												
BULGARIA.....	687	659	677	630	710	--	407	455	483	440	400	425
FRANCE.....	68	109	117	124	131	136	49	55	64	70	60	70
HUNGARY 3/.....	222	294	267	294	267	--	92	149	132	152	102	120
ROMANIA 3/.....	1,493	1,355	1,368	1,264	1,493	--	770	791	850	756	671	700
SPAIN.....	383	741	600	1,164	1,070	--	160	223	243	299	250	350
YUGOSLAVIA.....	479	452	423	554	494	497	264	347	277	433	300	375
OTHER.....	21	29	34	46	54	--	12	19	26	34	41	41
TOTAL 2/.....	3,353	3,639	3,486	4,076	4,219	--	1,754	2,039	2,075	2,184	1,824	2,081
USSR 1/.....												
	11,834	11,120	10,858	11,725	11,792	11,600	6,144	5,663	5,048	7,385	6,358 5/	6,300
AFRICA:												
MOROCCO.....	62	49	98	51	45	--	18	16	25	18	14	14
SOUTH AFRICA.....	387	455	475	855	596	591	100	134	151	233	253	221
OTHER.....	265	269	278	278	278	--	59	60	64	70	73	73
TOTAL 2/.....	714	773	851	1,184	919	--	177	210	240	321	340	308
ASIA:												
TURKEY.....	890	979	1,223	1,189	1,013	--	375	465	560	560	460	460
OTHER.....	143	157	157	157	150	--	73	77	76	75	75	76
TOTAL 5/.....	1,033	1,136	1,380	1,346	1,163	--	448	542	636	635	535	536
OCEANIA:												
AUSTRALIA.....	64	187	729	598	386	546	13	59	148	102	82	135
TOTAL.....	64	187	729	598	386	--	13	59	148	102	82	135
WORLD TOTAL.....	20,906	21,173	21,769	23,441	22,128	--	9,901	9,723	9,500	12,084	10,518	10,681

1/ Preliminary.

2/ Includes estimates for minor producing countries.

3/ Includes production from intercropping.

4/ Revised series.

5/ Represents mid-point of current range of estimate, i.e., 5.8-6.8 million metric tons. 6/ Includes estimates for the People's Rep. of China.

Foreign Agricultural Service. Prepared or estimated on the basis of official statistics of foreign governments, other foreign source material, reports of U.S. Agricultural Attaches and Foreign Service Officers, results of office research, and related information.

**Sunflowerseed and Oil: Production and exports by selected producer-exporters,  
and the world, annual 1965-74 and 1975 forecast**  
(In 1,000 metric tons)

Item and year	USSR		Romania		United States		Bulgaria		Argentina		Subtotal		Others		World
	Seed	Oil	Seed	Oil	Seed	Oil	Seed	Oil	Seed	Oil	as oil	as oil			
Production: 1/															
1965.....	6,058	2,248	518	202	16	--	337	131	757	244	2,825	303	3,128		
1966.....	5,449	2,036	564	222	20	--	357	139	782	252	2,649	329	2,978		
1967.....	6,150	2,341	671	269	32	--	423	169	1,120	361	3,110	358	3,498		
1968.....	6,608	2,579	720	295	104	17	478	196	940	303	3,390	329	3,719		
1969.....	6,685	2,562	730	294	84	13	456	184	876	282	3,335	371	3,706		
1970.....	6,358	2,420	747	299	81	13	541	217	1,140	367	3,316	486	3,802		
1971.....	6,144	2,371	770	312	86	14	407	165	830	267	3,129	483	3,612		
1972.....	5,663	2,180	791	320	196	31	455	184	828	267	2,982	655	3,637		
1973.....	5,048	1,943	850	344	334	94	483	195	965	311	2,887	674	3,561		
1974 2/.....	7,385	2,843	756	306	353	99	440	178	1,000	322	3,748	745	4,493		
1975 3/.....	6,761	2,603	671	271	291	81	400	162	780	251	3,368	617	3,985		
1976 3/.....	6,300	2,426	700	283	450	140	425	172	900	250	3,311	679	3,990		
Exports: 4/															
1965.....	35	221	15	33	--	--	39	1	--	35	379	28	407		
1966.....	61	428	21	77	--	--	67	--	--	78	732	29	761		
1967.....	132	670	29	110	--	--	58	8	--	81	1,088	40	1,128		
1968.....	161	714	19	116	1	--	51	21	--	80	1,163	35	1,198		
1969.....	151	656	18	144	--	--	52	42	--	7	1,070	22	1,092		
1970.....	62	351	28	119	1	3	30	30	--	101	725	88	813		
1971.....	37	379	10	132	2	9	20	19	--	36	644	73	717		
1972.....	33	394	2	129	16	12	20	26	--	--	632	57	689		
1973.....	32	342	2	145	70	21	11	18	--	61	702	64	766		
1974 2/.....	28	481	120	74	74	9	5	15	--	2	734	71	805		
1975 3/.....	25	450	90	90	50	5	--	5	--	1	626	64	690		
1976 3/.....	15	400	90	55	55	10	--	5	--	1	576	69	645		
Assumed crush:															
1960-67.....	87.5		92		0		92		92						
1968-72.....	87.5		92		40		92		92						
1973-74.....	87.5		92		70		92		92						
1975.....	87.5		92		78		92		92						
Assumed extraction:															
rate:															
1960-71.....		38-44.6	38-44.6		40			38-44.6		25-35					
1972-75.....		44	44		40			44		35					

(In percent)

1/ Total harvested in previous calendar year except Argentina where harvested in the year indicated. 2/ Partly estimated. 3/ Forecast.  
4/ Exports of seed expressed as oil using assumed extraction rates as indicated. 5/ Unofficial data compiled from trade sources and selected state reports.



## **WORLD PRODUCTION AND EXPORTS OF COPRA, COCONUT OIL EXPECTED TO RISE IN 1975**

### **Production**

World production of copra in 1975 is estimated at 3.88 million metric tons, compared with 1974's drought-reduced crop of 3.2 million. This year's production, equivalent to 2.48 million tons of coconut oil, will exceed by 18 percent the 2.10 million tons, oil equivalent of copra, produced in 1974. The increased production is expected primarily from a larger output of copra in the Philippines and Indonesia.

Copra production in the Philippines in 1975 is expected to reach 1.85 million tons, 34 percent higher than last year's 1.38 million. The 1975 estimate is based on improved weather conditions and an increased number of bearing trees. Production in 1974 declined 24 percent from that of the previous year, owing to nearly 2 years of drought and widespread harvesting of immature nuts. Another factor contributing to 1974's reduced official estimate of copra production may have been that some shipments of copra from the southern areas of the country were not recorded.

Indonesia's copra production is estimated at 640,000 tons, an increase of 12 percent from the 570,000 tons of 1974. The gain in 1975 is expected from a slight increase in harvested area, an intensified aerial spraying program to rid the producing areas of pests, and the rehabilitation of drainage systems in the coastal area. Also, a new canal systems, under construction in the tidal areas, is expected to aid the expansion of coconut plantings and improve drainage problems in the producing areas.

Because of the drainage improvement programs in Indonesia and expanded harvested areas in the Philippines, world production of coconut oil in 1976 is forecast to

increase to 2.57 million tons, about 4 percent higher than output in 1975.

### **Exports**

World exports of copra and coconut oil, in terms of oil, are expected to reach 1.23 million tons—up 29 percent from the 950,000 in 1974. Larger exports from the Philippines will account for most of the increase this year.

Copra exports from the Philippines are estimated at 610,000 tons, 97 percent higher than the 309,000 tons that were shipped in 1974. Government policy favoring exports of finished products, rather than copra, was not modified until the last quarter of 1974, when copra exports were allowed to move more freely. Minimum export and farm-gate prices were eliminated, and a flexible pricing system, based on world prices, was used instead. Consequently, the export volume of copra and coconut oil in 1975 is expected to increase substantially from 1974 levels.

Coconut oil exports from the Philippines, are estimated at 485,000 tons in 1975, an increase of about 12 percent from the 432,000 tons shipped last year. As additional coconut processing facilities begin operating, coconut oil exports are expected to increase accordingly, while copra exports decline. The existing copra crushing capacity is 1.6 million tons a year, and there are at present applications for the establishment of coconut oil mills with a total crushing capacity of about 1 million tons.

World exports of copra and coconut oil are expected to total about 1.28 million tons, oil basis, in 1976, with over 70 percent of the total emanating from the Philippines.



Copra: Estimated production by selected producing countries,  
annual 1966-74 and forecast 1975  
(In 1,000 metric tons)

Country	1966	1967	1968	1969	1970	1971	1972	1973	1974 <sup>1/</sup>	Forecast 1975
<b>Asia:</b>										
India.....	270	274	274	279	280	281	290	290	290	290
Indonesia 2/.....	586	597	660	730	815	769	849	720	570	640
Malaysia 3/.....	179	182	191	181	182	179	190	196	196	200
Philippines 2/.....	1,612	1,388	1,352	1,183	1,252	1,704	2,078	1,809	1,376	1,850
Sri Lanka 2/.....	223	191	194	200	183	195	255	105	150	210
Other.....	60	62	59	57	61	61	61	61	61	61
<b>Total.....</b>	<b>2,930</b>	<b>2,694</b>	<b>2,730</b>	<b>2,630</b>	<b>2,773</b>	<b>3,189</b>	<b>3,723</b>	<b>3,181</b>	<b>2,643</b>	<b>3,251</b>
<b>Oceania:</b>										
Fiji.....	26	25	28	34	29	29	26	26	26	26
French Pacific Islands.....	21	19	18	19	16	14	14	14	14	14
New Guinea 2/.....	97	97	117	109	109	117	126	114	120	120
New Hebrides.....	34	42	34	37	31	40	40	40	40	40
Papua.....	16	16	18	16	16	17	17	17	17	17
Other.....	72	67	63	76	70	82	83	83	83	83
<b>Total.....</b>	<b>266</b>	<b>266</b>	<b>278</b>	<b>291</b>	<b>271</b>	<b>299</b>	<b>306</b>	<b>294</b>	<b>300</b>	<b>300</b>
<b>Africa:</b>										
Mozambique 2/.....	43	60	60	51	60	64	60	63	65	65
Other.....	49	48	49	47	52	50	68	69	69	67
<b>Total.....</b>	<b>92</b>	<b>108</b>	<b>109</b>	<b>98</b>	<b>112</b>	<b>114</b>	<b>128</b>	<b>132</b>	<b>134</b>	<b>132</b>
<b>Americas:</b>										
Mexico.....	140	125	136	126	118	135	140	100	140	130
Other.....	59	65	66	61	62	66	65	66	65	63
<b>Total.....</b>	<b>199</b>	<b>190</b>	<b>202</b>	<b>187</b>	<b>180</b>	<b>201</b>	<b>205</b>	<b>166</b>	<b>205</b>	<b>193</b>
<b>World total.....</b>	<b>3,487</b>	<b>3,258</b>	<b>3,319</b>	<b>3,206</b>	<b>3,336</b>	<b>3,803</b>	<b>4,362</b>	<b>3,773</b>	<b>3,282</b>	<b>3,876</b>
<b>Coconut oil <sup>4/</sup>.....</b>	<b>2,232</b>	<b>2,085</b>	<b>2,124</b>	<b>2,052</b>	<b>2,135</b>	<b>2,434</b>	<b>2,792</b>	<b>2,415</b>	<b>2,100</b>	<b>2,481</b>

<sup>1/</sup> Preliminary.

<sup>2/</sup> Commercial production on the basis of the combined copra equivalent of exports excluding nuts used for food.

<sup>3/</sup> Includes Sabah and Sarawak.

<sup>4/</sup> 64 percent of copra.

Copra: Commercial production and exports by major producer-exporters  
annual 1965-75  
(In 1,000 metric tons)

Philippines		Indonesia		Sri Lanka		New Guinea		Subtotal		Total as oil	
: Oil	: Copra	: Oil	: Copra	: Oil	: Copra	: Oil	: Copra	: Oil	: Other	: World	
458	933	506	324	271	173	109	70	1,500	632	2,132	
612	1,032	586	375	223	143	97	62	1,612	620	2,232	
388	888	597	382	191	122	97	62	1,454	631	2,085	
352	865	660	422	194	124	109	70	1,481	643	2,124	
183	757	730	467	200	128	109	70	1,422	630	2,052	
252	801	815	522	183	117	109	70	1,510	625	2,135	
704	1,091	769	492	195	125	117	75	1,783	651	2,434	
078	1,330	849	543	255	163	126	81	2,117	675	2,792	
808	1,157	720	461	105	67	114	73	1,758	657	2,415	
376	881	570	365	150	96	120	77	1,419	681	2,100	
850	1,184	640	410	210	134	120	77	1,805	676	2,481	
558	234	79	0	27	88	43	25	1,054	234	1,288	
598	316	75	1	13	74	41	22	1,140	264	1,404	
532	234	72	2	10	68	38	24	980	230	1,210	
425	270	139	17	14	64	50	23	1,002	289	1,291	
369	213	101	4	12	56	50	21	826	270	1,096	
269	337	118	3	10	56	45	21	859	276	1,135	
454	409	41	4	11	71	47	27	1,064	255	1,319	
634	467	27	34	28	87	49	27	1,353	227	1,580	
466	426	23	17	2	18	32	23	1,007	213	1,220	
198	432	1	1	(6/)	26	45	23	726	227	953	
390	485	18	12	0	25	45	25	1,000	230	1,230	

production in year indicated. Oil production estimated on the basis of commercial crop assuming an  
of 64 percent. 2/ Estimated on the basis of the copra equivalent of exports. 3/ Preliminary.  
s of copra expressed as oil using an assumed extraction rate of 64 percent. 6/ Less than 500 tons.

Copra: Exports by principal exporting countries,  
annual 1968-74  
(In 1,000 metric tons)

Continent and country	1968	1969	1970	1971	1972	1973 1/	1974 1/
Registered Exports 2/							
Asia:							
Philippines.....	664	576	420	710	991	728	309
Indonesia.....	217	158	185	64	42	36	1
West Malaysia 3/.....	(4/)	12	9	(4/)	(4/)	(4/)	1
Sabah 3/.....	15	13	10	15	16	12	7
Subtotal Malaysia 3/.....	15	25	19	15	16	12	8
Singapore 3/.....	4	(4/)	(4/)	(4/)	(4/)	(4/)	(4/)
Sri Lanka.....	21	19	15	17	44	3	(5/)
Portuguese Timor.....	1	2	2	2	2	2	2
Total Asia.....	922	780	641	808	1,095	781	320
Oceania:							
New Guinea.....	78	78	71	74	77	50	70
Papua.....	18	17	17	17	23	23	28
New Caledonia.....	1	1	(5/)	(5/)	(5/)	(5/)	(5/)
New Hebrides.....	34	37	31	34	30	21	34
Cook Island.....	2	2	1	1	1	1	1
Solomon Islands.....	17	24	21	27	21	15	17
French Pacific Islands.....	8	2	1	1	0	0	0
Western Samoa.....	13	15	10	18	19	14	15
Gilbert and Ellice Islands..	6	8	6	6	7	6	6
Trust Territories (U.S.)....	9	13	13	13	13	13	13
Tonga Islands.....	8	14	8	9	12	13	8
Fiji Islands.....	0	2	1	0	0	0	0
Total Oceania.....	194	213	180	200	203	156	192
Africa:							
Mozambique.....	47	41	45	47	44	49	45
Tanzania.....	12	16	9	2	0	5	2
Seychelles.....	5	6	4	5	4	4	4
Togo.....	(5/)	1	1	(5/)	(5/)	(5/)	(5/)
Nigeria.....	4	2	2	1	(5/)	1	(5/)
Comora Islands.....	4	5	4	4	4	4	4
Sao Tome and Principe.....	5	5	5	5	6	6	5
Total Africa.....	77	76	70	64	58	69	60
Americas:							
Dominican Republic.....	6	4	1	2	0	1	1
Mexico.....	0	0	0	0	0	0	0
Saint Vincent.....	2	2	3	2	3	3	3
Total Americas.....	8	6	4	4	3	4	4
Other.....	5	4	5	3	3	(5/)	4
Total registered.....	1,206	1,079	900	1,079	1,362	1,010	580
Unregistered Exports 6/:							

Coconut Oil: Exports by principal exporting countries,  
annual 1967-74  
(In 1,000 metric tons)

Continent and Country	1967	1968	1969	1970	1971	1972	1973	1974
Unregistered.....	234	270	213	337	409	467	426	432
Registered.....	0	1	0	0	0	0	0	0
Unregistered.....	2	17	4	3	4	34	17	0
Registered.....	3	1	0	0	0	0	0	0
Unregistered.....	29	38	27	43	37	21	25	44
Registered.....	3	4	4	4	4	2	4	3
Total Malaysia.....	32	42	31	47	41	23	29	47
Unregistered.....	12	39	22	24	9	15	5	4
Registered.....	68	64	56	56	71	87	18	26
Total Asia.....	351	434	326	467	534	626	495	509
Pacific Islands.....	0	7	11	11	8	11	11	9
Unregistered.....	14	17	17	19	17	15	18	13
Registered.....	24	23	21	21	27	27	23	23
Total Oceania.....	38	47	49	51	52	53	52	45
Africa:								
Mozambique.....	9	8	8	7	7	6	10	9
Tanzania.....	3	2	3	7	5	3	1	2
Total Africa.....	12	10	11	14	12	9	11	11
Other.....	0	0	1	1	5	6	3	7
Total.....	401	491	387	533	603	694	561	572
Oil equivalent of copra exports.....	805	800	709	601	716	886	659	382
Grand total oil equivalent of copra and coconut oil.....	1,206	1,291	1,096	1,134	1,319	1,580	1,220	954

1/ Preliminary; partly estimated. 2/ Excess of imported from the Philippines and Indonesia over recorded exports after allowances were made afloat and for diversion enroute. 3/ Net exports. 4/ Believed to include a substantial volume of unregistered imports from Indonesia.

Foreign Agriculture Service. Prepared or estimated on the basis of official statistics of foreign governments, other foreign source material, reports of U.S. Agriculture Attaches and Foreign Service Officers, results of office research, and related information.

## WORLD PRODUCTION OF LARD AND TALLOW INCREASED IN 1974 OVER 1973 TOTALS

**World lard production.** World lard production increased 6.3 percent in 1974 to 3.96 million tons because of increased hog slaughter and higher yields per carcass in the major producing countries. Four areas in the world—the United States, the Soviet Union, the European Community (EC), and the Socialist East European countries—accounted for over four-fifths of world production.

U.S. production totaled 620,000 tons in 1974—an increase of nearly 9 percent over 1973's and the first gain in U.S. lard output since 1971. Increased slaughter accounted for most of the upswing, although yields also gained slightly. Soviet production reached 931,500 tons—up 5.5 percent over 1973's—but short of the 1972 record of 939,300 tons. EC production was up 6.5 percent, boosted by a 4.75 percent gain in yields. East European lard production was up nearly 10 percent to 951 thousand tons. Poland—the largest East European lard producer—also reported higher yields.

Sharply higher prices were the major stimulus for higher lard yields in 1974. For example, the average U.S. export price for lard was 25 cents per pound—up nearly 50 percent over the 1973 price. Prices in the first quarter of 1975 were about 4.8 cents higher than 1974 levels. Despite this

high price, world lard production is forecast to be down slightly in 1975 because prices of vegetable oil substitutes are expected to be more competitive.

**World Tallow and Grease Production.** World tallow production increased 11 percent during 1974 to a record 4.9 million tons. U.S. production was up 17.3 percent to 2.8 million tons. EC production was up 16 percent to 729,000 tons, reflecting more normal cattle slaughter rates. Production was up 13.6 percent in the USSR and up slightly in Canada. Australia was the only major producer to show a decline—down 20 percent—the result of sharply lower cattle slaughter.

For 1975, world beef production is expected to increase about 6 percent; however, world tallow production will probably be below 1974 levels because of lower slaughter weights. Recent slaughter statistics underscore this forecast: Average U.S. slaughter weights for the first half of 1975 are running 40 pounds per head below those of the same period a year ago; slaughter weights in France were down 30 pounds in May.

Hog grease production is included in U.S. tallow statistics, but not in those of other countries.

LAND 1 PRODUCTION IN SPECIFIED COUNTRIES - AVERAGE 1965-69, ANNUAL 1970-74  
IN THOUSANDS OF METRIC TONS

REGION AND COUNTRY	AVERAGE 1965-69	1970	1971	1972	1973	1974 <sup>1/</sup>
<b>NORTH AMERICA</b>						
CANADA.....	57.2	65.6	74.8	65.1	60.0	61.2
MEXICO.....	38.8	47.4	53.0	59.0	58.0	46.0
UNITED STATES.....	908.6	467.7	1019.0	787.2	568.8	619.6
OTHER.....	13.3	15.0	14.9	14.6	14.5	15.0
<b>TOTAL.....</b>	<b>1,017.9</b>	<b>995.3</b>	<b>1,051.8</b>	<b>846.0</b>	<b>701.3</b>	<b>741.8</b>
<b>SOUTH AMERICA</b>						
ARGENTINA.....	31.5	31.5	37.2	37.4	38.7	34.9
BRAZIL.....	93.1	95.0	101.7	108.8	115.6	119.3
CHILE.....	4.0	5.5	5.6	6.3	6.2	5.7
COLOMBIA.....	2.3	2.5	2.4	2.5	2.6	2.7
PERU.....	8.5	6.9	8.1	8.3	8.8	8.9
URUGUAY.....	1.5	1.5	1.1	1.3	1.5	1.7
VENEZUELA.....	5.0	6.3	6.5	7.8	8.0	7.8
<b>TOTAL.....</b>	<b>145.2</b>	<b>149.2</b>	<b>162.6</b>	<b>168.4</b>	<b>179.4</b>	<b>178.9</b>
<b>EUROPE</b>						
<b>WESTERN</b>						
<b>EC</b>						
BELGIUM-LUXEMBOURG.....	25.0	35.9	38.4	41.8	47.7	51.2
GERMANY.....	39.0	38.7	41.2	41.3	41.5	39.6
FRANCE.....	73.3	66.0	65.0	65.0	77.0	80.0
GERMANY, WEST.....	229.1	320.0	340.8	340.6	332.8	340.8
IRELAND.....	2.3	2.5	2.5	2.4	2.6	2.0
ITALY.....	80.5	100.6	109.8	113.1	117.1	145.3
NETHERLANDS.....	29.2	31.7	38.8	45.6	45.4	48.3
UNITED KINGDOM.....	11.1	11.7	12.5	11.8	11.8	11.6
<b>TOTAL EC.....</b>	<b>540.5</b>	<b>607.0</b>	<b>649.0</b>	<b>663.8</b>	<b>675.3</b>	<b>719.2</b>
AUSTRIA.....	33.0	37.3	31.6	36.1	29.7	30.5
FINLAND.....	2.3	3.0	3.7	3.5	2.4	2.4
GREECE.....	3.0	4.0	5.5	6.1	7.6	8.9
HUNGARY.....	1.1	1.2	1.2	1.4	1.4	1.4
PORTUGAL.....	9.4	9.5	10.3	11.4	12.5	13.4*
SPAIN.....	73.0	94.6	91.2	88.5	113.8	122.3
SWEDEN.....	8.0	8.1	8.7	9.4	9.0	9.0
SWITZERLAND.....	10.3	11.8	12.4	13.9	14.5	14.5
<b>TOTAL WESTERN.....</b>	<b>681.0</b>	<b>772.2</b>	<b>813.8</b>	<b>828.1</b>	<b>865.4</b>	<b>921.2</b>
<b>EASTERN</b>						
BULGARIA.....	37.3	30.3	35.0	41.9	37.9	37.7
CZECHOSLOVAKIA.....	93.1	95.3	101.9	109.9	110.5	127.8
GERMANY, EAST.....	147.2	145.7	152.7	165.8	173.6	188.3*
HUNGARY.....	76.9	77.7	94.1	105.7	96.6	117.3*
POLAND.....	242.5	236.9	243.2	294.0	328.2	356.9*
YUGOSLAVIA.....	116.4	120.4	145.2	134.0	118.6	123.3
<b>TOTAL EASTERN.....</b>	<b>713.4</b>	<b>706.2</b>	<b>772.1</b>	<b>842.9</b>	<b>865.1</b>	<b>951.3</b>
<b>TOTAL EUROPE.....</b>	<b>1,404.9</b>	<b>1,478.4</b>	<b>1,585.8</b>	<b>1,681.0</b>	<b>1,730.5</b>	<b>1,872.5</b>
<b>U.S.S.R.</b>	<b>732.1</b>	<b>783.1</b>	<b>910.3</b>	<b>939.3</b>	<b>881.8</b>	<b>931.5</b>
<b>AFRICA</b>						
<b>SOUTH AFRICA, REP. OF.....</b>	<b>10.9</b>	<b>11.4</b>	<b>9.3*</b>	<b>10.9*</b>	<b>10.9*</b>	<b>11.4*</b>
<b>ASIA</b>						
<b>TOTAL.....</b>	<b>10.9</b>	<b>11.4</b>	<b>9.3</b>	<b>10.9</b>	<b>10.9</b>	<b>11.4</b>
CHINA, REP. OF (TAIWAN).....	26.1	34.8	35.0	36.3	46.4	41.2
JAPAN.....	61.3	81.8	54.8	105.0	110.8	118.8
PHILIPPINES.....		55.4	56.0	60.2		

TALLOW AND GREASES<sup>1/</sup> PRODUCTION IN SPECIFIED COUNTRIES - AVERAGE 1965-69, ANNUAL 1970-74  
IN THOUSANDS OF METRIC TONS

REGION AND COUNTRY	AVERAGE 1965-69	1970	1971	1972	1973	1974 <sup>2/</sup>
<b>NORTH AMERICA</b>						
CANADA.....	120.0	177.8	139.0	204.4	204.5	208.7
MEXICO.....	19.5	21.0	21.2	21.4	22.8	27.3
UNITED STATES.....	2,337.3	2,078.0	2,009.1	2,504.0	2,412.2	2,830.1
OTHER.....	17.7	27.1	21.0	20.0	20.6	14.5
<b>TOTAL.....</b>	<b>2,504.5</b>	<b>2,099.9</b>	<b>2,091.4</b>	<b>2,749.8</b>	<b>2,660.1</b>	<b>3,080.6</b>
<b>SOUTH AMERICA</b>						
ARGENTINA.....	132.5	146.1	128.9	137.6	135.5	140.7
BRAZIL.....	61.4	69.5	70.5	73.0	75.0	82.5
CHILE.....	9.0	9.9	8.9	8.1	8.1	8.4
COLOMBIA.....	17.5	21.5	23.8	22.0	19.6	17.6
PANAMA.....	2.0	1.0	2.1	3.3	3.3	2.7
PERU.....	5.0	6.0	6.3	5.5	5.2	5.1
URUGUAY.....	17.5	20.0	16.8	16.7	12.9	14.4
VENEZUELA.....	4.5	11.2	10.9	11.2	12.7	13.7
<b>TOTAL.....</b>	<b>250.0</b>	<b>279.0</b>	<b>268.2</b>	<b>275.3</b>	<b>271.2</b>	<b>284.5</b>
<b>EUROPE</b>						
<b>WESTERN</b>						
<b>ECU</b>						
BELGIUM-LUXEMBOURG.....	20.3	23.1	23.7	22.7	23.0	27.4
DENMARK.....	21.7	58.3	61.0	63.3	65.8	61.0
FRANCE.....	124.1	126.0	140.0	147.4	157.0	179.0
GERMANY, WEST.....	97.0	127.0	101.0	135.4	135.0	150.0
IRELAND.....	10.0	16.0	17.1	14.3	14.7	16.3
ITALY.....	58.4	65.4	66.1	63.0	66.0	64.0
NETHERLANDS.....	27.5	37.0	33.2	37.0	33.9	45.2
UNITED KINGDOM.....	143.4	147.3	147.3	138.2	132.1	152.6
<b>TOTAL ECU.....</b>	<b>532.7</b>	<b>594.5</b>	<b>603.6</b>	<b>616.9</b>	<b>627.5</b>	<b>724.0</b>
AUSTRIA.....	0.0	6.3	6.0	0.5	4.6	7.6
FINLAND.....	2.5	2.5	2.0	2.5	2.3	2.7
NORWAY.....	1.4	1.3	1.3	1.3	1.4	1.5
PORTUGAL.....	5.5	7.0	0.5	0.5	4.5	3.5*
SPAIN.....	15.5	23.1	23.0	22.8	20.5	24.2
SWEDEN.....	10.4	10.0	8.0	7.6	7.7	7.4*
SWITZERLAND.....	7.4	10.1	10.1	9.2	14.1	14.5
<b>TOTAL WESTERN.....</b>	<b>585.0</b>	<b>655.0</b>	<b>715.4</b>	<b>675.2</b>	<b>695.5</b>	<b>802.0</b>
<b>EASTERN</b>						
BULGARIA.....	4.9	2.7	8.0	4.2	9.8	9.5
CZECHOSLOVAKIA.....	13.5	14.4	15.0	15.2	16.1	18.1
GERMANY, EAST.....	13.7	15.0	15.2	15.9	16.7	17.9*
HUNGARY.....	6.1	6.4	6.4	5.7	6.5	5.6*
POLAND.....	26.0	30.0	28.5	27.3	34.9	31.5*
YUGOSLAVIA.....	10.0	16.5	17.9	18.0	16.5	19.5
<b>TOTAL EASTERN.....</b>	<b>84.0</b>	<b>91.7</b>	<b>91.7</b>	<b>89.2</b>	<b>100.5</b>	<b>102.2</b>
<b>TOTAL EUROPE.....</b>	<b>669.0</b>	<b>747.3</b>	<b>807.1</b>	<b>764.5</b>	<b>796.0</b>	<b>904.2</b>
<b>U.S.S.R.....</b>	<b>274.7</b>	<b>298.4</b>	<b>304.7</b>	<b>309.9</b>	<b>316.3</b>	<b>335.8</b>
<b>AFRICA</b>						
<b>SOUTH AFRICA, REP. OF.....</b>	<b>0.0</b>	<b>0.0</b>	<b>7.3*</b>	<b>7.2 *</b>	<b>0.9*</b>	<b>0.1*</b>
<b>TOTAL.....</b>	<b>0.0</b>	<b>0.0</b>	<b>7.3</b>	<b>7.2</b>	<b>0.9</b>	<b>0.1</b>
<b>ASIA</b>						
CHINA, REP. OF (TAIWAN).....	0.4	0.5	0.4	0.3	0.3	0.3
IRAN.....	15.0	17.3	15.0	16.0	18.9	19.1
ISRAEL.....	1.0	1.2	1.1	1.1	1.2	1.2
JAPAN.....	7.0	10.6	10.7	11.3	8.7	11.0
PHILIPPINES.....	0.0	0.7	0.7	0.7	1.0	1.0
TURKEY.....	5.7	6.0	6.2	5.4	5.4	6.0
<b>TOTAL.....</b>	<b>30.0</b>	<b>36.4</b>	<b>34.8</b>	<b>36.9</b>	<b>35.5</b>	<b>38.6</b>
<b>OCEANIA</b>						
AUSTRALIA.....	142.5	192.5	213.3	244.4	247.7	197.8
NEW ZEALAND.....	78.5	94.0	92.1	94.0	94.5	95.1
<b>TOTAL.....</b>	<b>261.1</b>	<b>286.5</b>	<b>305.4</b>	<b>338.4</b>	<b>342.3</b>	<b>292.9</b>
<b>TOTAL SELECTED COUNTRIES</b>	<b>4,001.5</b>	<b>4,353.9</b>	<b>4,579.0</b>	<b>4,527.6</b>	<b>4,434.3</b>	<b>4,924.0</b>

\* - FAS ESTIMATE

<sup>1/</sup> INCLUDES EDIBLE AND INEDIBLE TALLOW AND GREASES.  
<sup>2/</sup> PRELIMINARY.

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